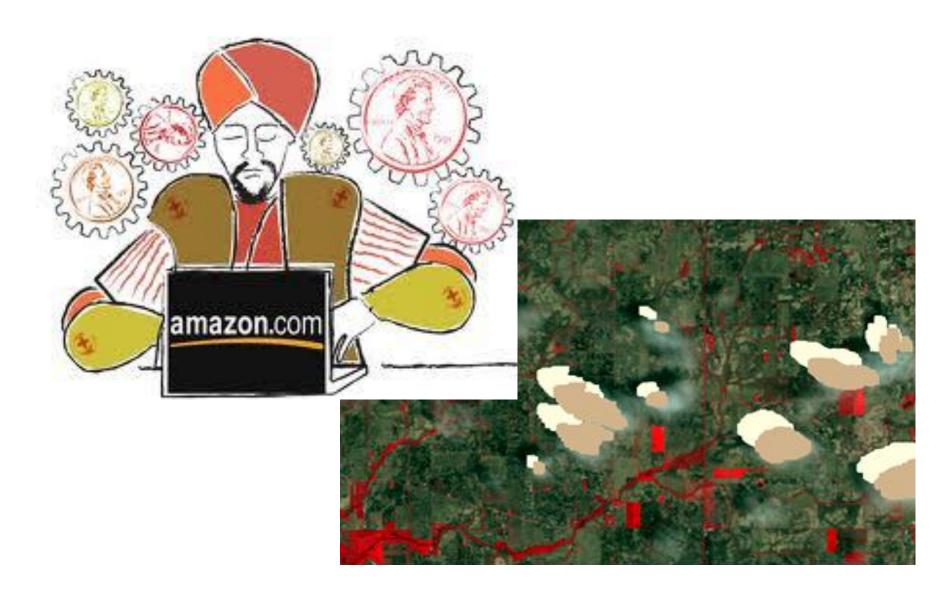
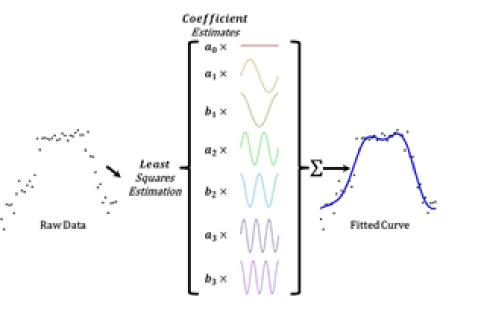
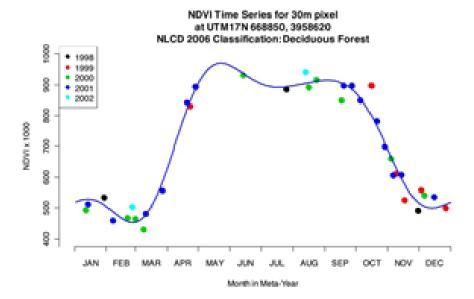
Making Multitemporal Work – Wynne et al.

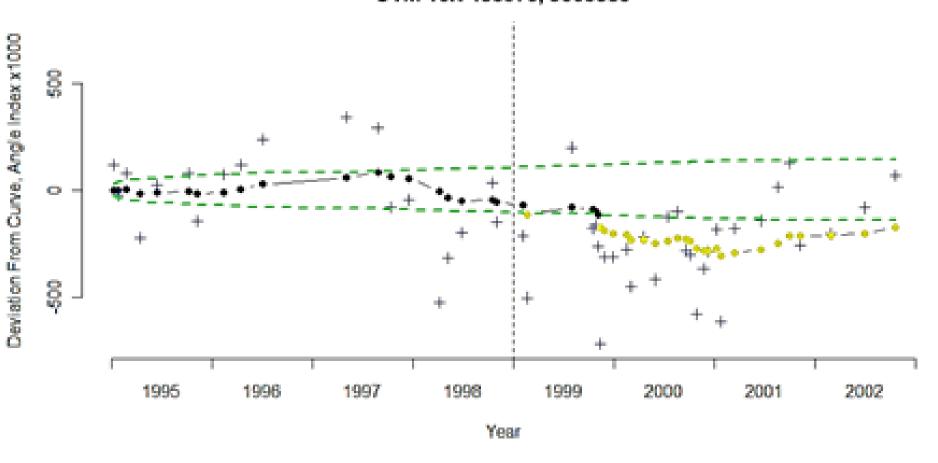
- Is crowd sourcing a reliable and cost-effective solution to removing clouds and cloud shadows that remain subsequent to the application of automated algorithms?
- How can Fourier series best be used to create smooth periodic time series of Landsat data?
- Using smooth periodic time series generated from Fourier regression or (as necessary) (E)STARFM (Gao et al. 2006, Zhu et al. 2010), how can both gross and subtle changes to land use / cover be detected reliably using from one to three additional observations?
- How well do empirical (Flores et al., 2006) and physically-based (Ganguly et al., 2012) algorithms for leaf area index (LAI) generation estimate LAI in intensively-managed pine ecosystems? How can they be improved?
- Can we improve the spatial specificity of regional forest productivity estimates via stratification of FIA data using temporally coherent clusters?
- Using the new tree canopy product as a case study, how can the precision of vegetation continuous field products be estimated in a robust and computationally-efficient manner?



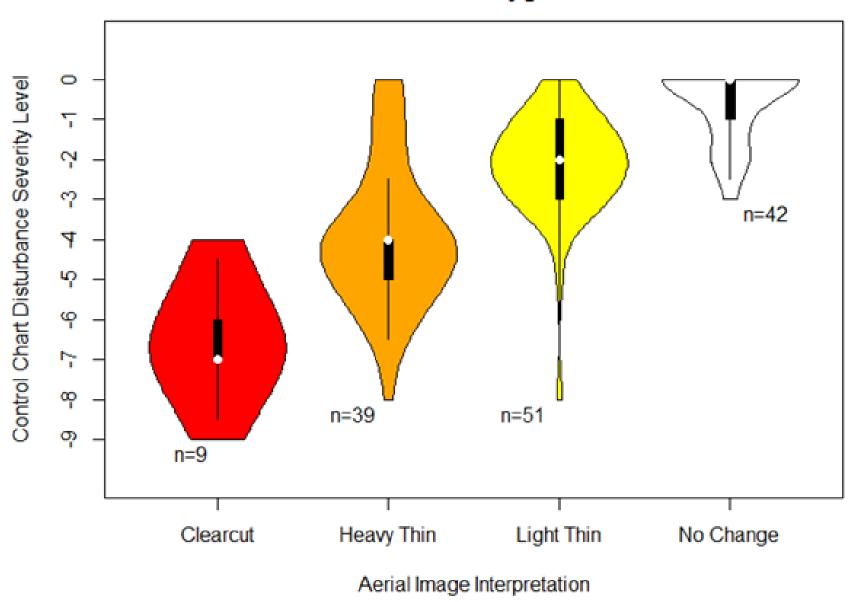


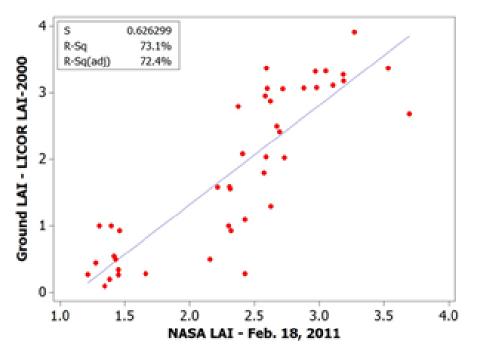


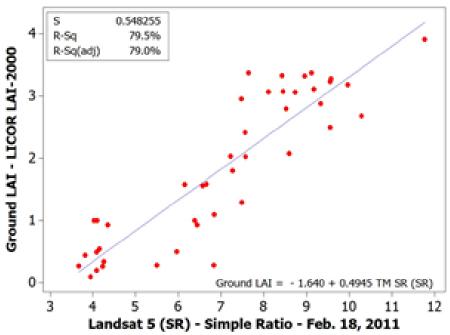
EWMA Chart for Residual Time Series for 30m Landsat Pixel at UTM 16N 458970, 3665580

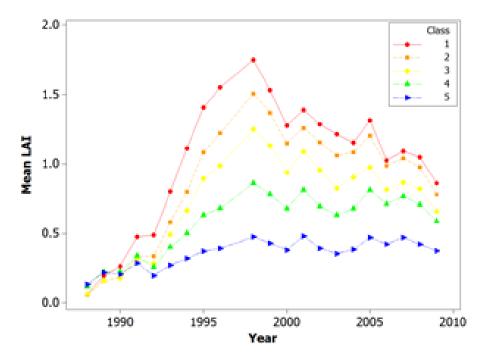


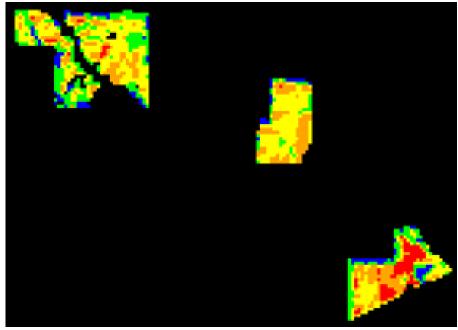
Distribution of EWMA Signals by Aerial Disturbance Thinned Polygons











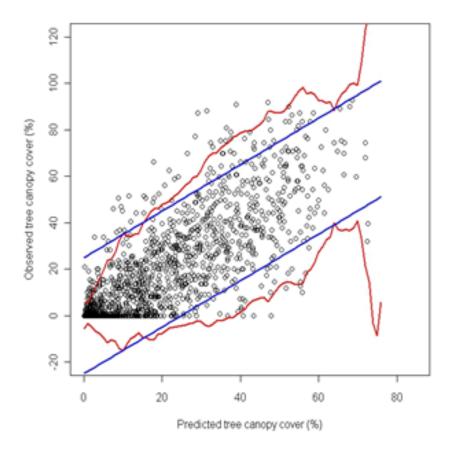


Figure 10 Example of Monte-Carlo 95% confidence intervals for a random forest model (red) as compared to standard bootstrap 95% confidence interval (blue) for percent tree canopy cover in a sparsely vegetated area of Utah. Note the standard bootstrap confidence intervals are too narrow in parts of the distribution and too wide in other parts of the distribution.